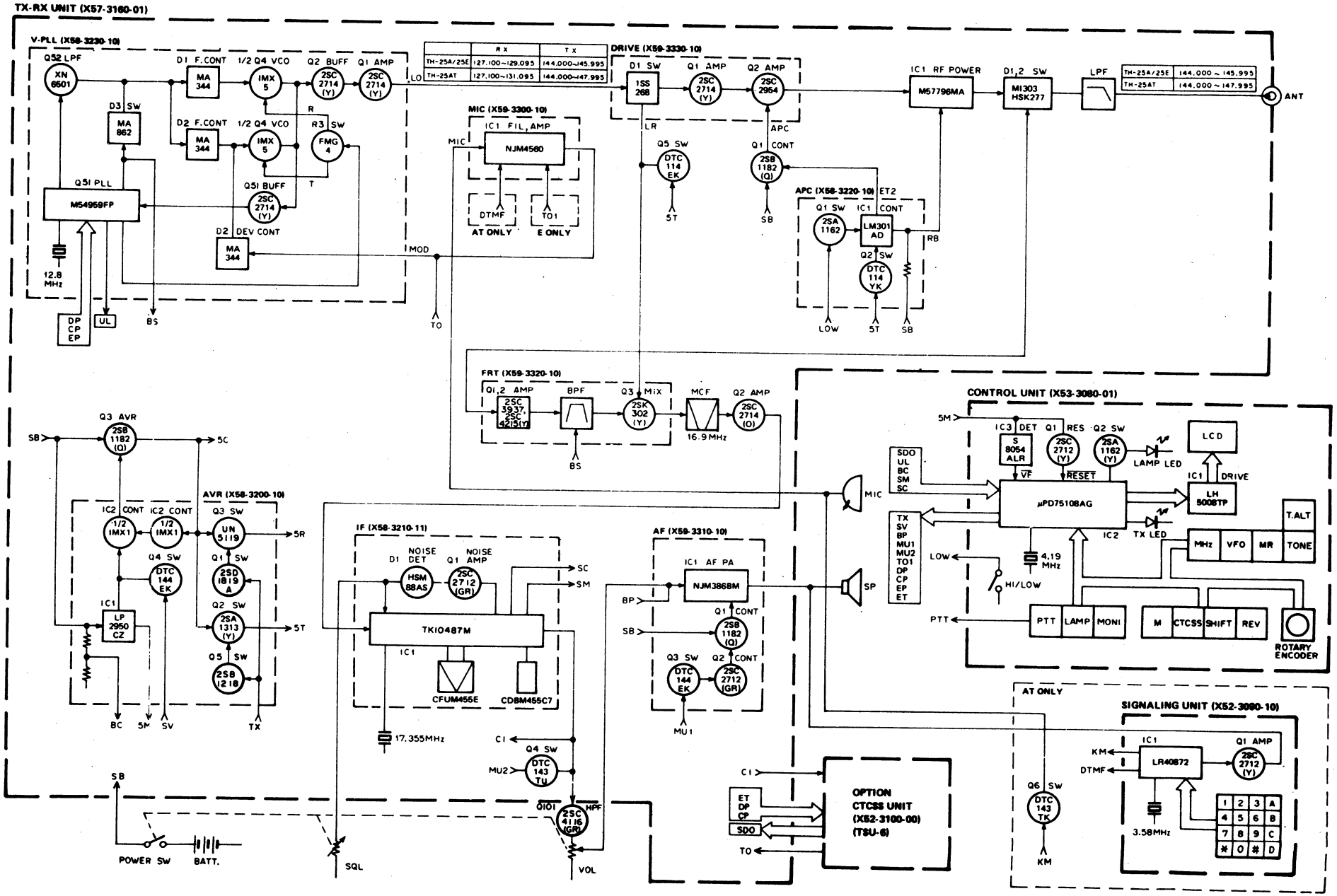
# KENWOOD TH-205A

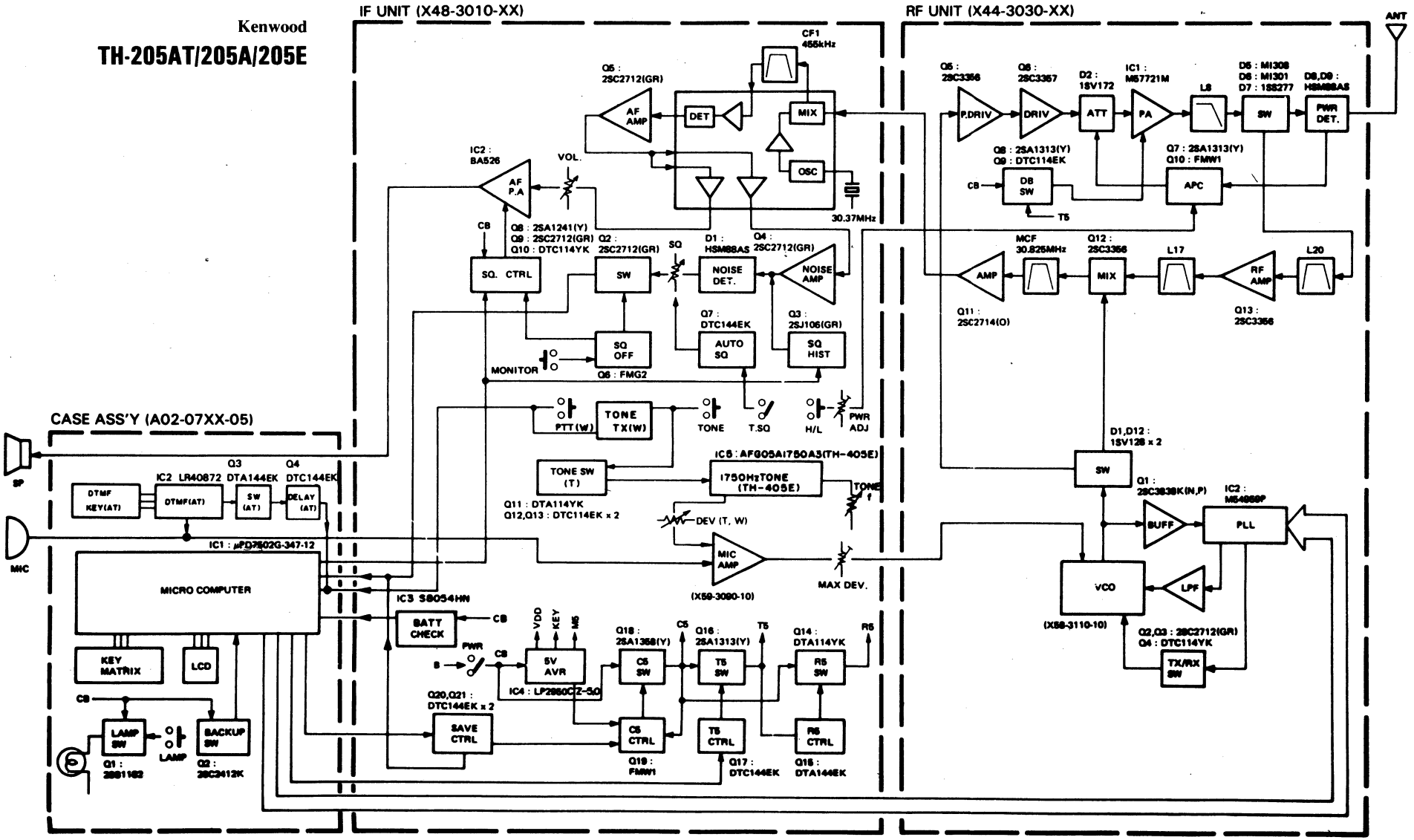
MODEL

SERVICE MANUAL

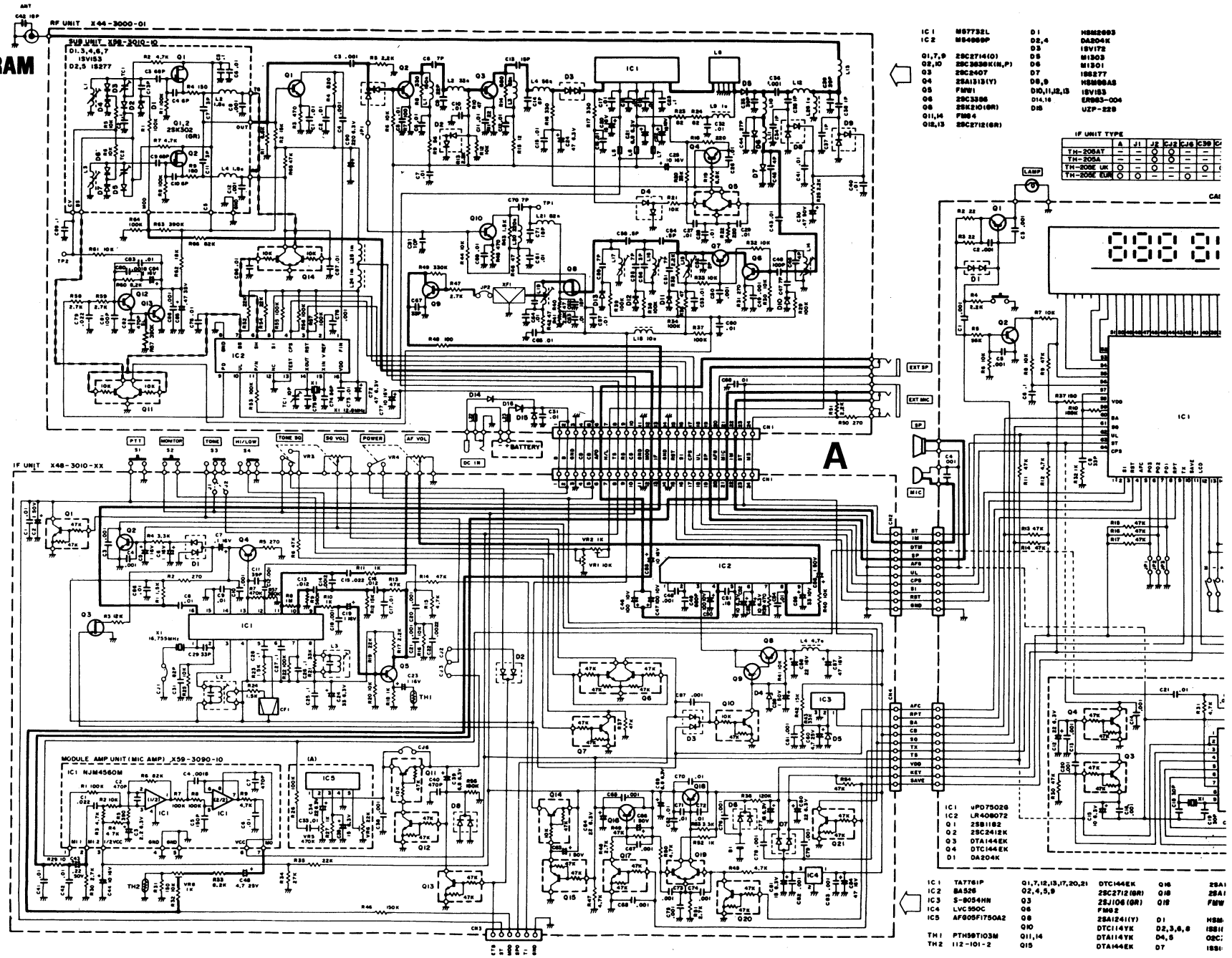

TX-RX UNIT (X57-3160-01)
V-PLL (X58-3230-10)
Q52 LPF
XN 6501
D1 F.CONT
MA 344
1/2 Q4 VCO
IMX 5
Q2 BUFF
2SC 2714 (Y)
Q1 AMP
2SC 2714 (Y)
LO
D3 SW
MA 862
D2 F.CONT
MA 344
1/2 Q4 VCO
IMX 5
R3 SW
FMG 4
R
T
Q51 PLL
M54959FP
Q51 BUFF
2SC 2714 (Y)
D2 DEV CONT
MA 344
12.8 MHz
DP
CP
EP
UL
BS
MOD
TO
MIC (X58-3300-10)
IC1 FIL, AMP
NJM4560
MIC
DTMF
AT ONLY
TO1
E ONLY
DRIVE (X58-3330-10)
D1 SW
1SS 268
Q1 AMP
2SC 2714 (Y)
Q2 AMP
2SC 2954
LR
APC
Q5 SW
DTC 114 EK
5T
Q1 CONT
2SB 1182 (Q)
SB
APC (X58-3220-10) ET2
Q1 SW
2SA 1162
IC1 CONT
LM301 AD
Q2 SW
DTC 114 YK
RB
LOW
5T
SB
IC1 RF POWER
M57796MA
D1,2 SW
MI303 HSK277
LPF
TH-25A/25E 144.000 ~ 145.995
TH-25AT 144.000 ~ 147.995
ANT
RX TX
TH-25A/25E 127.100~129.095 144.000~145.995
TH-25AT 127.100~131.095 144.000~147.995
FRT (X59-3320-10)
Q1,2 AMP
2SC 3937, 2SC 4215(Y)
BPF
Q3 MIX
2SK 302 (Y)
MCF
16.9MHz
Q2 AMP
2SC 2714 (O)
BS
CONTROL UNIT (X53-3080-01)
5M
IC3 DET
S 8054 ALR
Q1 RES
2SC 2712 (Y)
Q2 SW
2SA 1162 (Y)
LAMP LED
LCD
IC1 DRIVE
VF
RESET
SDO
UL
BC
SM
SC
μPD75108AG
LH 5008TP
TX LED
IC2
T.ALT
MHz
VFO
MR
TONE
TX
SV
BP
MU1
MU2
TO1
DP
CP
EP
ET
LOW
HI/LOW
4.19 MHz
PTT
LAMP
MONI
M
CTCSS
SHIFT
REV
ROTARY ENCODER
MIC
SP
Q3 AVR
2SB 1182 (Q)
SB
5C
AVR (X58-3200-10)
IC2 CONT
1/2 IMX1
IC2 CONT
1/2 IMX1
Q3 SW
UN 5119
5R
Q4 SW
DTC 144 EK
Q1 SW
2SD 1819 A
IC1
LP 2950 CZ
Q2 SW
2SA 1313 (Y)
5T
Q5 SW
2SB 1218
BC
5M
SV
TX
IF (X58-3210-11)
D1 NOISE DET
HSM 88AS
Q1 NOISE AMP
2SC 2712 (GR)
SC
SM
TK10487M
IC1
CFUM455E
CDBM455C7
17.355MHz
C1
Q4 SW
DTC 143 TU
MU2
0101
2SC 4116 (GR)
HPF
SQL
VOL
AF (X58-3310-10)
IC1 AF PA
NJM3868M
BP
SB
Q1 CONT
2SB 1182 (Q)
Q3 SW
DTC 144 EK
Q2 CONT
2SC 2712 (GR)
MU1
C1
ET
DP
CP
SDO
TO
OPTION CTCSS UNIT (X52-3100-00) (TSU-6)
AT ONLY
SIGNALING UNIT (X52-3080-10)
IC1
LR40872
Q1 AMP
2SC 2712 (Y)
KM
DTMF
3.58MHz
1 2 3 A
4 5 6 B
7 8 9 C
* 0 # D
Q6 SW
DTC 143 TK
KM
POWER SW
BATT.

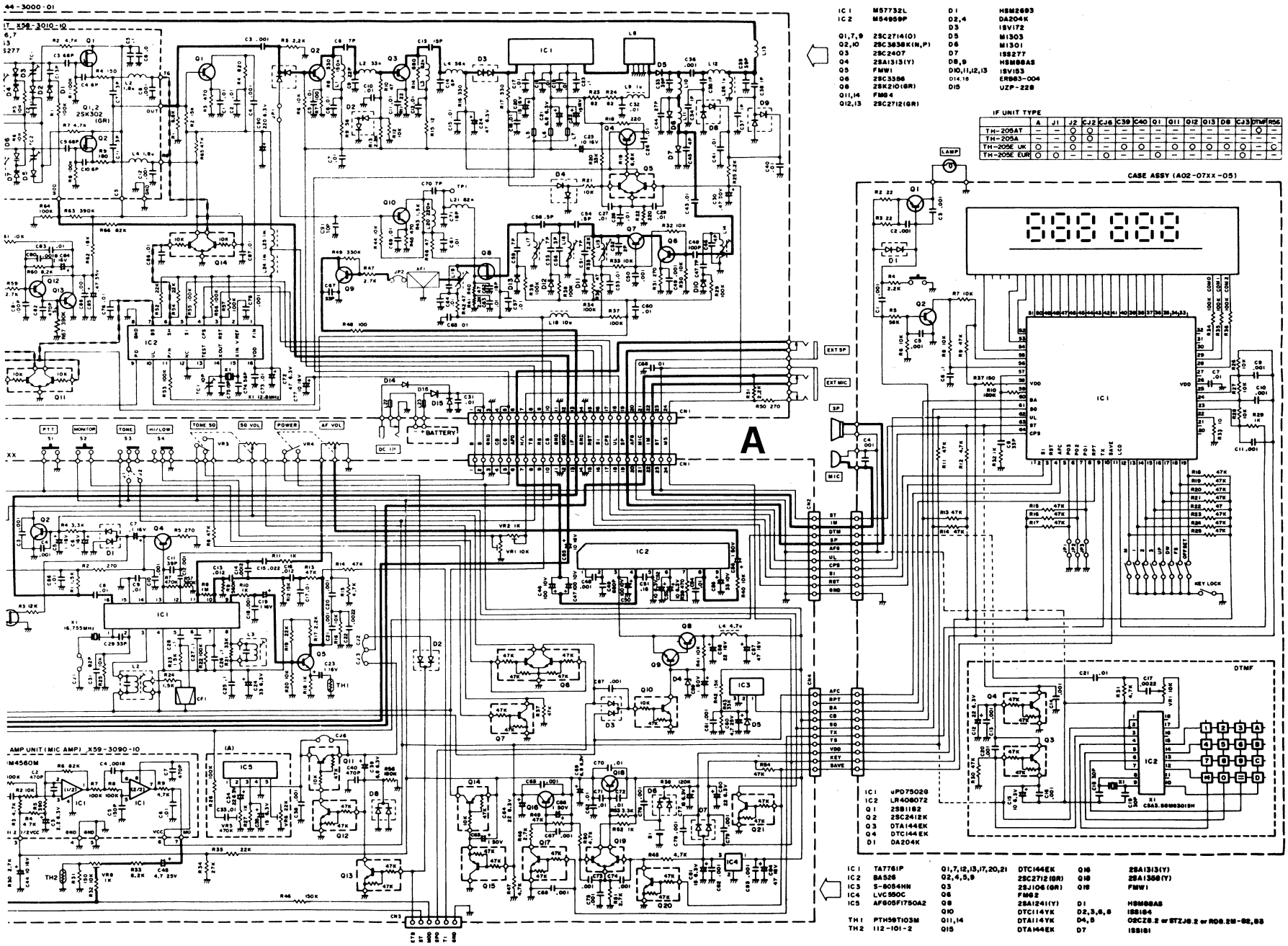
Kenwood

# TH-205AT/205A/205E



# SCHEMATIC DIAGRAM




44-3000-01
X59-3010-10
CASE ASSY (A02-07XX-05)
AMP UNIT (MIC AMP) X59-3090-10
DTMF
A
IC1 M57732L
IC2 M54959P
Q1,7,9 2SC2714(O)
Q2,10 2SC3838K(N,P)
Q3 2SC2407
Q4 2SA1313(Y)
Q5 FMW1
Q6 2SC3356
Q8 2SK210(GR)
Q11,14 FM84
Q12,13 2SC2712(GR)
D1 HSM2693
D2,4 DA204K
D3 1SV172
D5 MI303
D6 MI301
D7 1SS277
D8,9 HSM88AS
D10,11,12,13 1SV153
D14,16 ERB83-004
D15 UZP-228
IF UNIT TYPE
TH-205AT
TH-205A
TH-205E UK
TH-205E EUR
IC1 uPD75028
IC2 LR4080T2
Q1 2SB1182
Q2 2SC2412K
Q3 DTA144EK
Q4 DTC144EK
D1 DA204K
IC1 TA7761P
IC2 BA526
IC3 S-8054HN
IC4 LVC950C
IC5 AF605F1750A2
TH1 PTH56T103M
TH2 112-101-2
Q1,7,12,13,17,20,21 DTC144EK
Q2,4,5,9 2SC2712(GR)
Q3 2SJ106(GR)
Q6 FM62
Q8 2SA1241(Y)
Q10 DTC114YK
Q11,14 DTA114YK
Q15 DTA144EK
Q16 2SA1313(Y)
Q18 2SA1360(Y)
Q19 FMW1
D1 HSM88AS
D2,3,6,8 1SS184
D4,5 08CZ8.2 or 9TZJ8.2 or RD8.2E-B2,B3
D7 1SS181
EXT SP
EXT MIC
SP
MIC
LAMP
BATTERY
DC IN
PTT
MONITOR
TONE
HI/LOW
TONE SQ
SQ VOL
POWER
AF VOL
KEY LOCK